

## Product datasheet for TP324599

### PFKFB1 (NM\_002625) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 1 (PFKFB1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC224599 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MSPEMGELTQTRLQKIWIPIHSSGSSRLQRRRGSSIPQFTNSPTMVMVGLPARGKTYISTKLTRYLNWIG  
TPTKVFNLGQYRREAVSYKNEYFFLPDNMEALQIRKQCALAALKDVHNYLSHEEGHVAVFDATNTTRERR  
SLILQFAKEHGYKVFFIESICNDPGIIAENIRQVKLGSPDYIDCDREKVLDFLKRIECYEVNYQPLDEE  
LDSHLSYIKIFDVGTRYMVNRVQDHIQSRTVYYLMNIHVTPRSIYLCRHGESELNIRGRIGGDSGLSVRG  
KQYAYALANFIQSQGISSLKVWTSHMKRTIQTAEALGVPHEQWKALNEIDAGVCEEMTYEEIQEHYPEEF  
ALRDQDKYRYRYPKGESYEDLVQRLEPVIMELERQENVLVICHQAVMRCLLAYFLDKSSDELPLYLKCPLH  
TVLKLTPVAYGCKVESIYLNVEAVNTHREKPENVDITREPEEALDTPAHY

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	54.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_002616](#)

Locus ID: 5207

UniProt ID: [P16118](#)

RefSeq Size: 1756

Cytogenetics: Xp11.21

RefSeq ORF: 1413

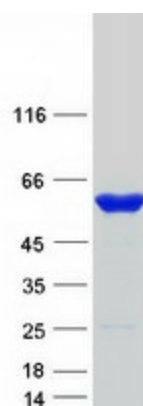
Synonyms: F6PK; HL2K; PFRX

**Summary:** This gene encodes a member of the family of bifunctional 6-phosphofructo-2-kinase:fructose-2,6-biphosphatase enzymes. The enzyme forms a homodimer that catalyzes both the synthesis and degradation of fructose-2,6-biphosphate using independent catalytic domains. Fructose-2,6-biphosphate is an activator of the glycolysis pathway and an inhibitor of the gluconeogenesis pathway. Consequently, regulating fructose-2,6-biphosphate levels through the activity of this enzyme is thought to regulate glucose homeostasis. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2012]

**Protein Families:** Druggable Genome

**Protein Pathways:** Fructose and mannose metabolism

### Product images:



Coomassie blue staining of purified PFKFB1 protein (Cat# TP324599). The protein was produced from HEK293T cells transfected with PFKFB1 cDNA clone (Cat# [RC224599]) using MegaTran 2.0 (Cat# [TT210002]).